

CLAIMS

Having described the invention with sufficient clarity to enable those skilled in the art to make and use it, what is claimed as inventive, new and desired to be secured by US Patent is :

1. A system of chair with an ergonomic adjustable supple suspended seat with a secured controlled and balanced inclination by bodyweight only composed of :

- a stable and rigid base resting on the ground, supporting the whole seating structure, constituted by non deformable symmetrical elements forming mounting and balustrades, integrating 2 rocking safety stops
- a deformable balanced seating structure suspended and rocking on this base, composed by 3 main parts, articulated and rotating between them and constituting a longitudinally deformable parallelepiped balanced on the intersection point of its tops.
- an adjustable ergonomic supple seat, suspended and fastened like a hammock of this seating structure and centred on the body weight point of the user.

2. A system of chair with an ergonomic adjustable centred suspended seat, according to Claim 1, including a one in piece supple seat material without planar panels or angles from head to knees :

- adaptable to user' mobility and morphology thanks to the adjustment bar of the seating structure stretching or releasing the seat length and tension following the user' mobility or morphology in maximum, intermediate or minimum position and easing his access and exit from the chair,
- wherein the whole body of the user is ergonomically distributed and held from head to knees allowing relaxation and avoiding stiffening risks whatever chosen position,
- centred on the user' body weight point in the supple seat.

3. A system of chair with an ergonomic adjustable centred suspended and supple seat with a secured controlled and balanced inclination by bodyweight only, according to Claims 1 and 2, including a deformable seating structure rocking on the base around its balance point allowing :

- the controlled rocking of the seat by the user' body weight backward or forward at user' choice thanks to the alignment axis between the user' body weight point and the balance point of the seating structure
- the independence of this rocking for the user, thanks to the natural control of the slope by his bodyweight interaction to reach and keep all positions without help or effort
- the secured rocking backward or forward for the user, thanks to the security stops fixed on the base forbidding falls in maximum backward or forward rocking.